AMENDMENTS TO THE DRAWINGS

The Examiner objected to Figures 3-10 because the characters in the shaded area were not shown clearly. Substitute Figures 3-10 are submitted herewith to correct the objection by removing the shading from the areas where characters are shown.

Fig. 1

_200_

_203_

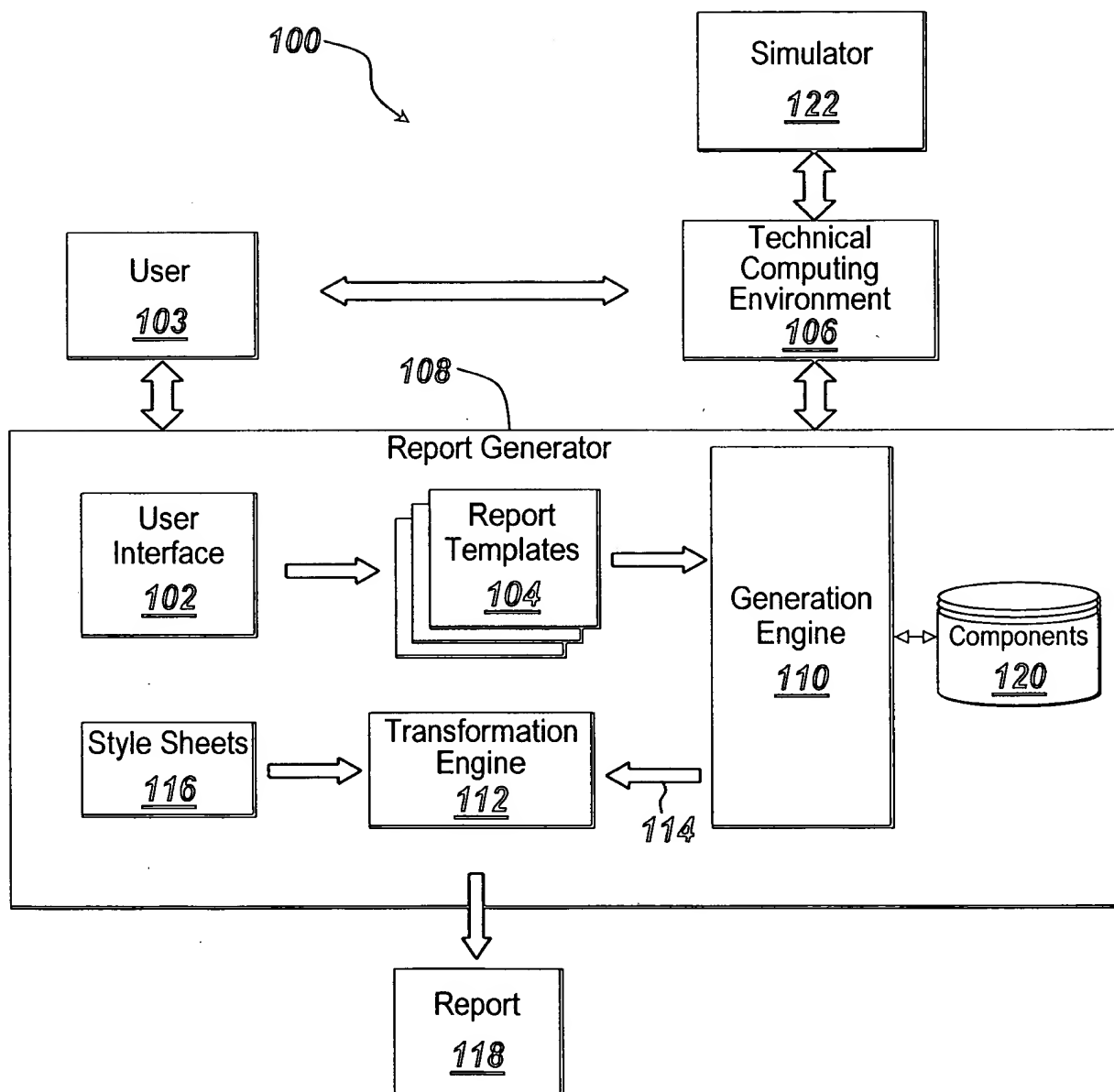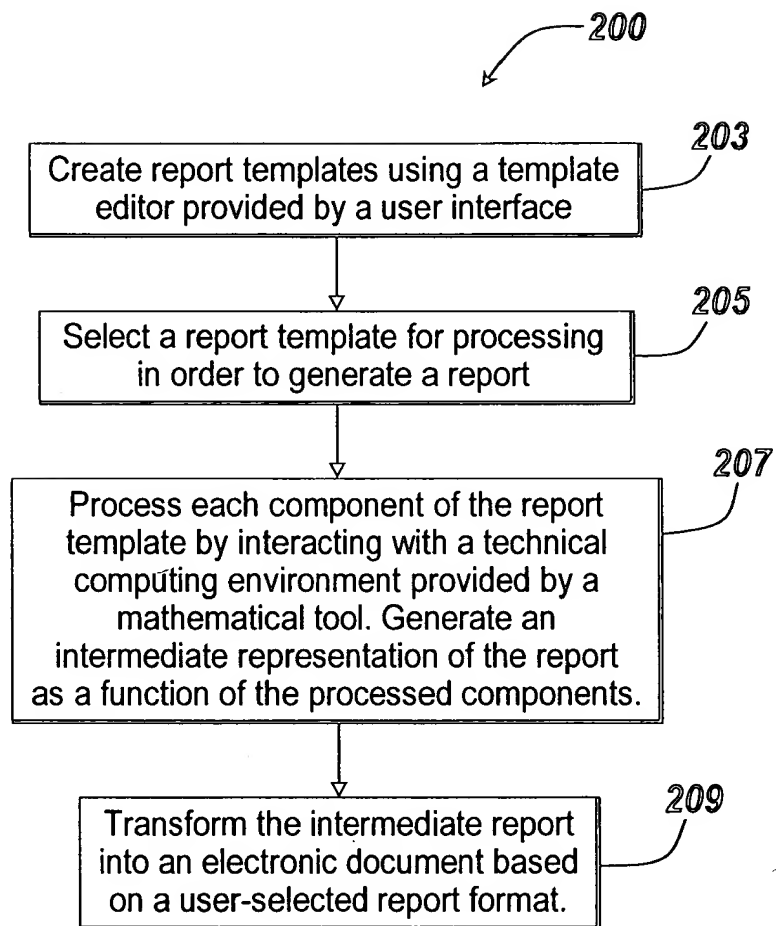Create report templates using a template editor provided by a user interface

_205_

Select a report template for processing in order to generate a report

_207_

Process each component of the report template by interacting with a technical computing environment provided by a mathematical tool. Generate an intermediate representation of the report as a function of the processed components.

_209_

Transform the intermediate report into an electronic document based on a user-selected report format.

Fig. 2

Fig. 3

_400_

C:\MATHWORKS\R12\toolbox\fixpoint\fixpt-report.rpt
C:\MATHWORKS\R12\toolbox\rptgen\figloop-tutorial.rpt
C:\MATHWORKS\R12\toolbox\rptgen\mfile-report.rpt
C:\MATHWORKS\R12\toolbox\rptgen\wsvar-report.rpt
C:\MATHWORKS\R12\toolbox\rptgen\ch1-tutorial.rpt
C:\MATHWORKS\R12\toolbox\rptgen\magic-square.rpt
C:\MATHWORKS\R12\toolbox\rptgen\simple-report.rpt
C:\MATHWORKS\R12\toolbox\rptgen\slideshow-book.rpt
C:\MATHWORKS\R12\toolbox\rptgenext\simulink-default.rpt
C:\MATHWORKS\R12\toolbox\rptgenext\simulink-dynamic.rpt
C:\MATHWORKS\R12\toolbox\rptgenext\simulink-summary.rpt
C:\MATHWORKS\R12\toolbox\rptgenext\simulink-images.rpt
C:\MATHWORKS\R12\toolbox\rptgenext\stateflow-nest.rpt
C:\MATHWORKS\R12\toolbox\rptgenext\simulink-blank.rpt
C:\MATHWORKS\R12\toolbox\rptgenext\stateflow-default.rpt

C:\MATHWORKS\R12\toolbox\rptgenext\simulink-dynamic.rpt

Simulink Dynamic Report

This report opens up a model, sets a block parameter several
times, simulates the model, and collects results. Results which fall

| Help | | Edit | Report | Close |

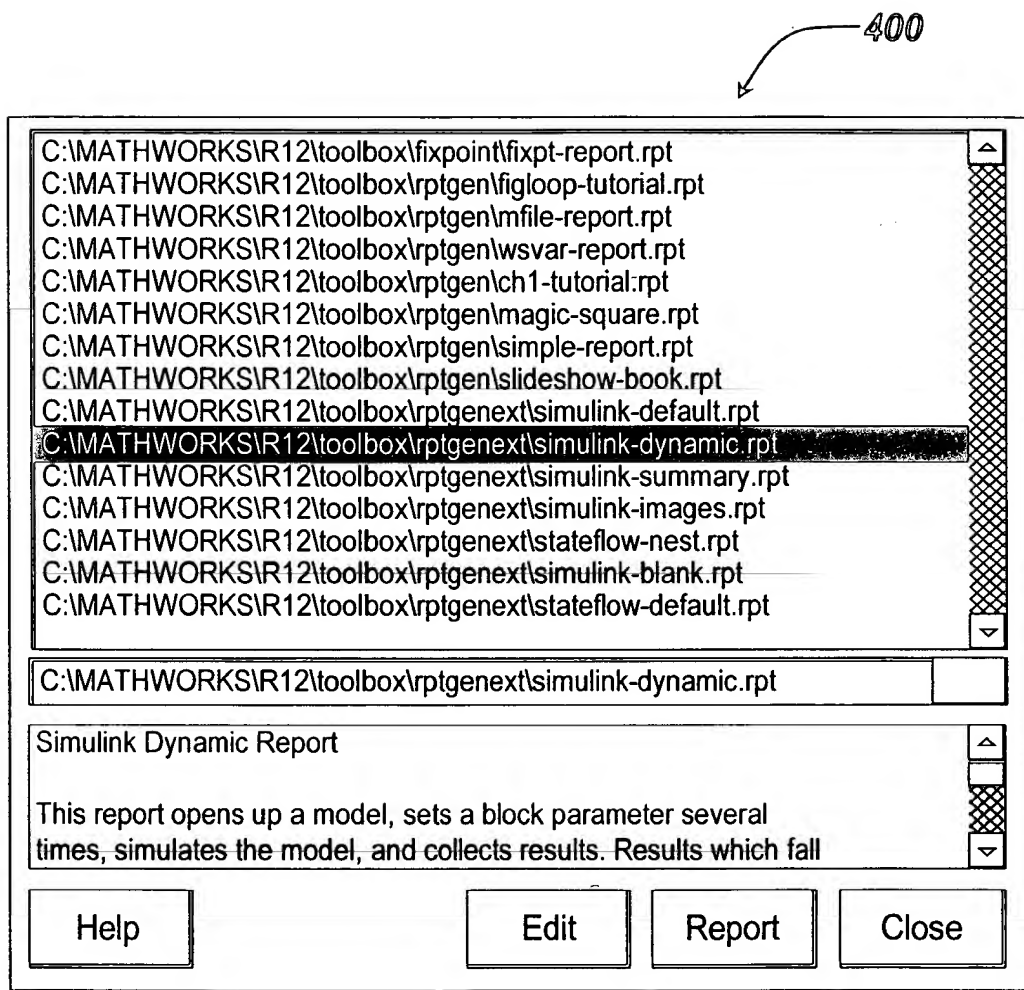_Fig. 4_

500

Component Creation Wizard

Component Category
Component Name
Component Attributes
Component Methods
Confirm Selections

Component category

Formatting
Handle Graphics
Logical & Flow Control
MATLAB
Report Generator
Simulink
Simulink Blockset: DSP
Simulink Blockset: Fixed-Point
Simulink Blockset: Nonlinear Control Design
Simulink Blockset: Power System
Stateflow
Toolbox: Communications
Toolbox: Control Systems
Toolbox: Financial

Simulink Blockset: Fixed Point
Category name

FP
Category ID

Use the "Simulink Blockset: Fixed-Point" Setup File Editor category

| Cancel | Previous | Next > | Skip to End >> |

Fig. 5

300

605

Report Options

Report File Location

D:\v5\bin\nt\ch1-tutorial.html

Directory: ○ Same as setup file (D:\v5\toolbox\rptgen)
◉ Present working directory (D:\v5\bin\nt)
○ Other

File name: ◉ Same as setup file (ch1 -tutorial)
○ Other   index

☐ If report already exists, increment to prevent overwriting

Report Format & Stylesheet

web (HTML)   ▷   Single-Page Simple   ▷

Generation Options

Edit...

Description

A simple version of mfile-report.rpt

This setup file has five components:
1) Report - specifies the output file location and file format

Options   Add Components   Generation Status

?

[-] Report - ch1-tutorial.rpt
[-] Paragraph - When peaks.m r
[ ] Eval string -%Evaluate PEAK
[ ] Graphics Figure Snapshot
[ ] Figure Prop Table -

File Edit Window Help

Report

Inserts a table which reports on model property-value pairs

Fig. 6

701

703

705

707

700

When peaks.m runs in the workspace, the following text is displayed to the command window:

```
z = 3*(1-x).^2.*exp(-(x.^2) - (y+1).^2) ...
    -10*(x/5 - x.^3 - y.^5).*exp(-x.^2-y.^2) ...
    -1/3*exp(-(x+1).^2 - y.^2)
```

Peaks

PaperPosition: (1.00, 1.00) 5.00 x 4.00 inches

PaperOrientation: portrait
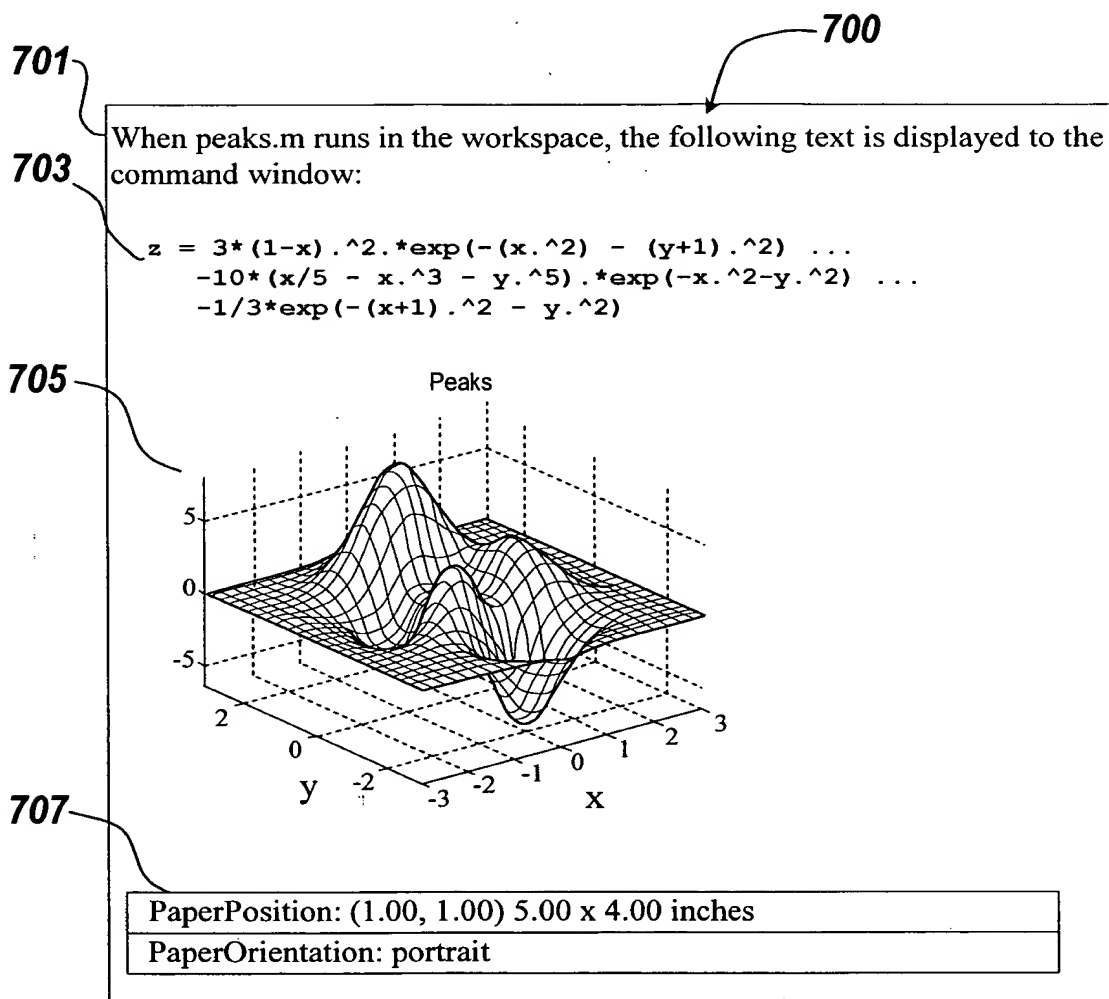
Fig. 7

Formating Components

Component	Output / Behavior
cfrcelltable	Cell Table
cfrsection	Chapter/Subsection
cfrimage	Image
cfrlink	Link
cfrlist	List
cfrparagraph	Paragraph
cfrtext	Text
cfr_titlepage	Title Page

Graphic Handling Components

Component	Output / Behavior
chgfigloop	Figure Loop
chgfigproptable	Figure Property Table
chgfigsnap	Graphics Figure Snapshot
chgobjname	Graphics Object Name
chgproperty	Handle Graphics Parameter

Logical & Flow Control Components

Component	Output / Behavior
cloelse	<if> Else
cloelseif	<if> Elseif
clothen	<if> Then
clofor	For Loop
cloif	Logical If

Fig. 8

Technical Computing Components

Component	Output / Behavior
cmleval	Evaluate an Expression
cmlvariable	Insert Variable
cml_ver	MATLAB/Toolbox Version Number
cmlwhos	Variable Table

Reporting Components

Component	Output / Behavior
crg_comment	Comment
crgempty	Empty Component
crg_import_file	Import File
crgnestset	Nest Setup File
crg_halt_gen	Stop Report Generation
crgtds	Time/Date Stamp

Fig. 9

Simulator Components

Component	Output / Behavior
cslsortblocklist	Block Execution Order
csl_blk_loop	Block Loop
csl_blk_proptable	Block Property Table
cslblockcount	Block Type Count
csl_mdl_changelog	Model Change Log
csl_functions	Model Functions
csl_mdl_loop	Model Loop
csl_mdl_proptable	Model Property Table
cslsim	Model Simulation
csl_variables	Model Variables
csllinktarget	Object Linking Anchor
csllinkname	Object Name
cslproperty	Object Property
csl_summ_table	Object Summary Table
cslscopesnap	Scope Snapshot
csl_sig_loop	Signal Loop
csl_sig_proptable	Signal Property Table
cslfilter	System Filter
cslsyslist	System Hierarchy
csl_sys_loop	System Loop
csl_sys_proptable	System Property Table
cslsnapshot	System Snapshot

State Control Components

Component	Output / Behavior
csf_hier_loop	Stateflow Loop
csf_obj_report	Stateflow Object Report
csf_prop_table	Stateflow Property Table
csf_snapshot	Stateflow Snapshot
crg_halt_gen	Stop Report Generation

Fig. 10

Fig. 11